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| (21) International Application Number: PCT/EP99/08481 (22) International Filing Date: 8 November 1999 (08.11.99) (30) Priority Data: MI98A002440 11 November 1998 (11.11.98) IT (71) Applicant (for all designated States except US): AQUISITIO S.p.A. [IT/IT]; Piazzale Aquileia 8, I-20144 Milano (IT). (72) Inventors; and (75) Inventors/Applicants (for US only): BARBUCCI, Rolando [IT/IT]; Aquisitio S.p.a., Piazzale Aquileia, 8, I-20144 Milano (IT). RAPUOLI, Roberto [IT/IT]; Aquisitio S.p.a., Piazzale Aquileia, 8, I-20144 Milano (IT). (74) Agent: MINOJA, Fabrizio; Bianchetti Bracco Minoja S.r.l., Via Rossini, 8, I-20122 Milan (IT). | | (81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> (88) Date of publication of the international search report: 16 November 2000 (16.11.00) |
| (54) Title: CROSS-LINKED HYALURONIC ACIDS AND MEDICAL USES THEREOF (57) Abstract New cross-linked hyaluronic acids obtainable by reaction of activated carboxylic groups of native linear hyaluronic acid, of extractive or biosynthetic source, with a polyamine, particularly a linear alkyl diamine. The cross-linked hyaluronic acids of the invention can optionally be sulphated or hemisuccinylated and are useful as substitutes of synovial fluid, vitreous humor, as controlled-release matrices forms medicaments, as healing and antiadhesive agents, and for the preparation of vascular prosthesis, biohybrid organs, healing devices, ophthalmic and otological compositions, prosthesis, implants and medical devices. | | |

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INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP 99/08481

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C08B37/08 A61L27/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C08B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| P,X | P. BULLPITT ET AL.: "New startegy for chemical modification of hyaluronic acid: Preparation of functionalized derivatives and their use in the formation of novel biocompatible hydrogels" J. BIOMED. MATER. RES., vol. 47, no. 2, 1999, pages 152-169, XP000913609 figure 2 | 1-4,6,7, 9-11 |

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